

REMARKS

Claim 4 has been amend. Claims 1-13 remain for further consideration. No new matter has been added.

The objections and rejections shall be taken up in the order presented in the Official Action.

1-2. Claims 1-13 currently stand rejected for allegedly being anticipated by the subject matter disclosed in U.S. Patent 6,240,361 to Ise et al (hereinafter "Ise").

Claim 1

Claim 1 of the present invention recites a navigation system for use in a motor vehicle. The system includes *"a navigation computing unit that receives the first navigation system position signal, and transmits onto the data bus (i) a first position signal indicative of the position of a trip starting location, (ii) a second position signal indicative of a trip destination location, and (iii) the first navigation system position signal"* (cl. 1). The system also includes a monitor unit having a memory device that includes map data, and monitor computing unit. The monitor computing unit receives from the data bus: (i) the first position signal, (ii) the second position signal and (iii) the received navigation system position signal, and accesses the memory device to generate initial image data including map data indicative of the trip starting location, the trip destination and the current position of the navigation system. Claim 1 recites that *"the navigation computing unit receives a second navigation position signal indicative of a new position of the navigation system and transmits the second navigation*

position signal over the data bus to the monitor computing unit, which generates revised image data including map data indicative of the trip starting location, the trip destination and the updated position of the navigation system, which is provided for display on said display device.” (cl. 1).

Significantly, the navigation system of claim 1 includes a navigation computing unit and a monitor computing unit. As set forth in claim 1, the monitor computing unit receives position data from the navigation computing unit, and generates initial image data that is displayed to a user.

In contrast, Ise discloses only a single computing unit - the CPU 10. That is, Ise fails to disclose a navigation system that includes: (i) a navigation computing unit and (ii) a monitor computing unit. Ise simply discloses a single CPU (see CPU 10 in FIG. 1). The Official Action contends that col. 4, lines 35-43 discloses the monitor computing unit as set forth in claim 1. However, a fair and proper reading of col. 4, lines 35-43 indicates it discloses only scrolling, and that the map changes the position of the names of locations displayed on the map. Significantly, Ise discloses a only a single computing unit - the CPU 10. A 35 U.S.C. §102 rejection requires that a single reference teach each and every element of the claimed invention. Ise is incapable of anticipating claim 1 since it fails to disclose a navigation system for use in a motor vehicle that includes: (i) a navigation computing unit and (ii) a monitor computing unit.

Claim 7

Claim 7 of the present invention also recites a navigation system for use in a motor

vehicle. The navigation system recited in claim 7 includes: (i) a navigation computing unit and (ii) *“means responsive to (i) said first position signal, (ii) said second position signal and (iii) said received navigation system position signal and said map data, for generating initial image data including map data indicative of the trip starting location, the trip destination and the current position of the navigation system;”* (cl. 1). As set forth above regarding claim 1, Ise simply discloses a system that includes a single computing unit (see FIG. 1). If the navigation computing unit of claim 1 is covered by the CPU 10 disclosed in Ise, then there is no other structure disclosed in Ise for performing the function of the means for generating recited in claim 7. A 35 U.S.C. §102 rejection requires that a single reference teach each and every element of the claimed invention. Ise is incapable of anticipating claim 7 since it fails to disclose a navigation system for use in a motor vehicle that includes: (i) a navigation computing unit and (ii) means for generating.

Claim 13

Claim 13 recites a method of generating an image for display by a motor vehicle navigation system that includes a navigation computing unit, a data bus and a monitor unit. As set forth above, Ise neither discloses nor suggests both a navigation computing unit and monitor unit. Specifically, Ise neither discloses nor suggests:

“transmitting onto said data bus from the navigation computing unit (i) a first position signal indicative of the position of a trip starting location, (ii) a second position signal indicative of a trip destination location, and (iii) said first navigation system position signal;

receiving at the monitor unit said first position signal, said second position, and said first navigation system position signal;

generating, at the monitor unit, initial image data including map data indicative of the trip starting location, the trip destination location and the

current position of the navigation system; and
displaying an initial image indicative of said initial image data.”
(emphasis added, cl. 13).

That is, Ise neither discloses nor suggests utilizing a navigation computing unit and a monitor unit as set forth in claim 13 to generate and display an initial image. Therefore, Ise is incapable of anticipating method recited in claim 13.

3. Claims 1-13 currently stand rejected for allegedly being anticipated by the subject matter disclosed in U.S. Patent 5,821,880 to Morimoto et al (hereinafter “Morimoto”).

Claim 1

The Official Action contends that Morimoto discloses in col. 6, lines 45-55 a navigation computing unit as set forth in claim 1 (see Official Action, pg. 4). The Official Action also contends that the abstract of Morimoto discloses a monitor computing unit as set forth in claim 1 (see Official Action, pg. 5). However, col. 6, lines 45-55 of Morimoto simply discloses receiving a starting location and a destination location, and computing a midway point. In addition, the abstract of Morimoto simply discloses how the system detects an off-route condition and then prompts the driver to determine if the driver wants to recompute the route. Specifically, the abstract of Morimoto discloses re-searching for a new route only when initiated by the driver in response to a detected off-route condition. In contrast, the system recited in claim 1 of the present invention employs a navigation computing unit and a monitor unit that efficiently cooperate (i.e., share data) as set forth in the claim 1, to display an initial image and subsequently display an image indicative of revised image data. Morimoto neither

discloses nor suggests a system having such a structural configuration utilizing two computing units as claimed. Therefore, Morimoto is incapable of anticipating claim 1.

Claim 7

Claim 7 recites a motor vehicle navigation system that includes a navigation computing system and “*means ... for generating*”. Morimoto neither discloses nor suggests a navigation computing system that is partitioned in this matter. As set forth above, col. 6, lines 45-55 of Morimoto simply discloses receiving a starting location and a destination location, and computing a midway point. In addition, the abstract of Morimoto simply discloses how the system detects an off-route condition and then prompts the driver to determine if the driver wants to recompute the route.

Therefore, Morimoto is incapable of anticipating claim 7.

Claim 13

Claim 13 recites a method of generating an image for display by a motor vehicle navigation system that includes a navigation computing unit, a data bus and a monitor unit. This claim is patentable for at least all reasons set forth above with respect to Ise.

4. Claim 4 currently stands rejected under 35 U.S.C. §112, second paragraph for allegedly failing to particularly point out and distinctly claim the subject matter deemed to be the subject of the present invention.

Claim 4 has been amended.

5. The undersigned representative notes the additional cited, but not applied, prior art and agrees that this prior art neither anticipates or renders obvious, either alone or in combination, the claimed invention.

For all the foregoing reasons, reconsideration and allowance of claims 1-13 is respectfully requested.

If a telephone interview could assist in the prosecution of this application, please call the undersigned attorney.

Respectfully submitted,



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VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE CLAIMS:

Amend claim 4 as follows:

4.(amended) The navigation system of claim 1, wherein said navigation computing unit also transmits to said monitor computing unit via said data bus (iv) an instruction that a first place symbol belongs at the map location associated with the trip starting location, and (v) an instruction that a second place symbol belongs at the map location associated with the trip destination location.